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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220									
JCALS-100PCT	ACTION	as well as, where applicable, Item 5 below.									
international application No.	International filing date (day/month/)	ear) (Earliest) Priority Date (day/month/year)									
PCT/JP2004/019271	16/12/2004	22/01/2004									
Applicant											
CALSONIC KANSEI CORPORATIO	N .										
This international Search Report has been prepared by this international Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the international Bureau.											
This International Search Report consists of a total of sheets.											
X It is also accompanied by	a copy of each prior art document cite	d in this report.									
Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.											
The international this Authority (Rui		a translation of the International application furnished to									
b. With regard to any nucleo	otide and/or amino acid sequence d	sclosed in the international application, see Box No. I.									
2. Certain claims were fou	nd unsearchable (See Box II).										
3. Unity of invention is lack	king (see Box III).	,									
4. With regard to the title,											
X the text is approved as su	bmitted by the applicant.										
the text has been establis	hed by this Authority to read as follow	3:									
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5. With regard to the abstract,	h—itted by the confloors										
	the text is approved as submitted by the applicant. the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. iV. The applicant										
may, within one month fro	m the date of mailing of this internation	nal search report, submit comments to this Authority.									
 With regard to the drawings, a. the figure of the drawings to be p 	uhlishad with the abstract is Floure No	, 1									
a. the lighte of the drawings to be p X as suggested by t		7•									
as selected by this Authority, because the applicant falled to suggest a figure.											
	s Authority, because this figure better										
	published with the abstract.										

n' ntional application No.

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Box No. IV Text of the abstract (Continuation of Item 5 of the first sheet)

In an air conditioning system having a variable displacement compressor (2) driven by an engine (7) of a vehicle, method and device for controlling a refrigeration cycle are provided to ensure necessary cooling performance of the system without damaging the traveling performance of the vehicle. In the method, a limit value in the discharge rate of the variable displacement compressor (2) is determined by an engine speed (12) or a variable related to the engine speed. The variable displacement compressor is controlled (9, 2a) on the basis of the limit value.

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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B60H1/32 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) **B60H** IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to daim No. Category ° EP 1 095 804 A (KABUSHIKI KAISHA TOYOTA 1,5,6,8, X 9,13,14, JIDOSHOKKI; KABUSHIKI KAISHA TOYODA JIDOSHOKKI) 2 May 2001 (2001-05-02) paragraph '0039! - paragraph '0043!; figures 1,7,8 1-4,7, US 2003/051495 A1 (OHTA HIROMI ET AL) X 9-12.15 20 March 2003 (2003-03-20) paragraph '0044! - paragraph '0051!; figures 1,3 5,6,13, US 2001/025500 A1 (BASCOBERT RENE F) А 4 October 2001 (2001-10-04) 14 paragraph '0033! US 2002/023451 A1 (KURODA YASUTAKA ET AL) 8,16 A 28 February 2002 (2002-02-28) paragraphs '0047!, Patent family members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the 'A" document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international "X" document of particular relevance; the claimed Invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "Y" document of particular relevance; the claimed Invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 15/03/2005 2 March 2005 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk

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PCT, _/2004/019271

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 1095804	A	02-05-2001	JP EP US	2001133053 1095804 6481227	A2	18-05-2001 02-05-2001 19-11-2002
US 2003051495	A1	20-03-2003	JP DE	2003080936 10242900		19-03-2003 24-04-2003
US 2001025500	A1	04-10-2001	US US CA EP JP US US		A A1 A2 A A1	03-04-2001 17-11-1998 27-07-1998 29-07-1998 04-08-1998 02-08-2001 02-08-2001
US 2002023451	A1	28-02-2002	JP DE	2003002048 10141592		08-01-2003 14-03-2002